FIG. 1

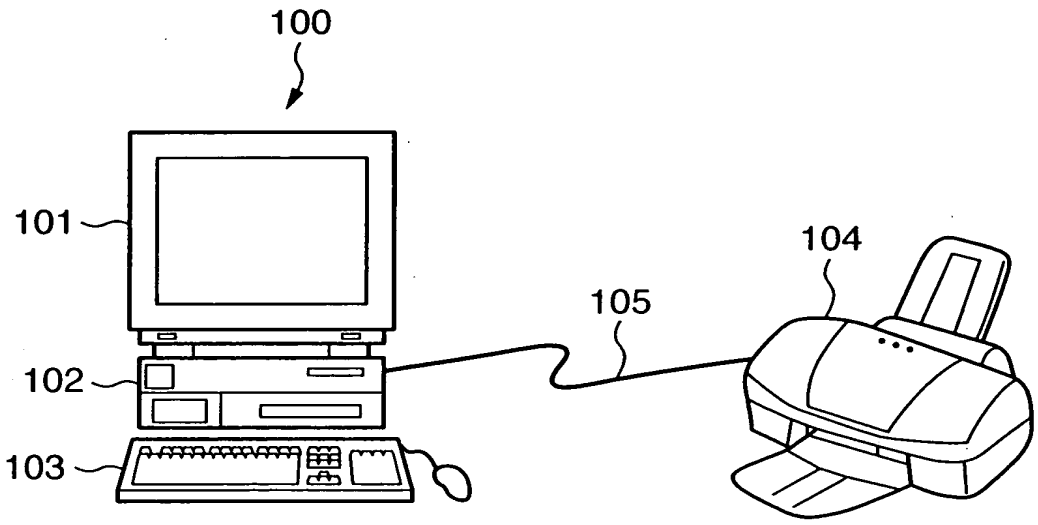


FIG. 2

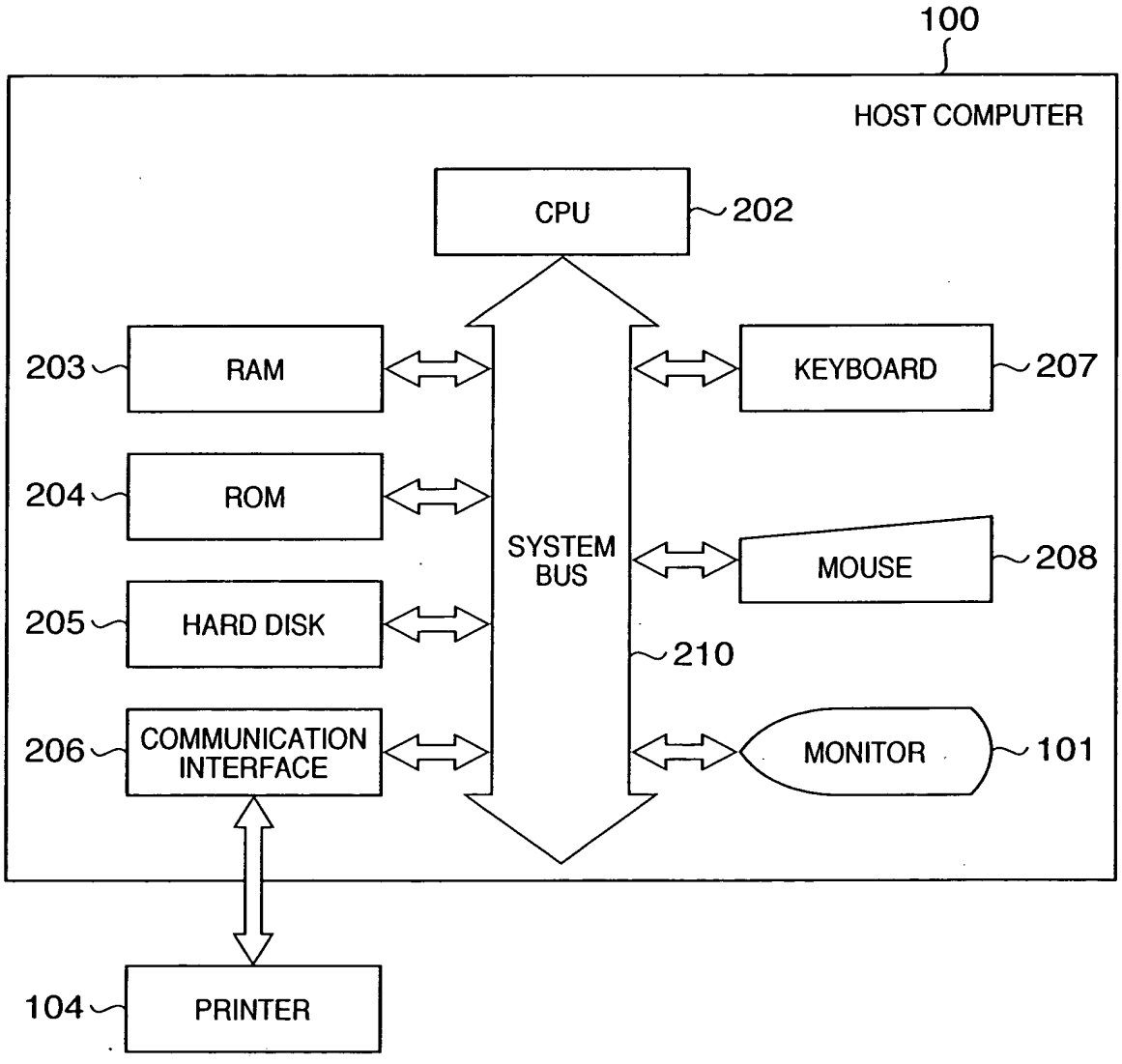

100
HOST COMPUTER
CPU
202
203
RAM
204
ROM
205
HARD DISK
206
COMMUNICATION INTERFACE
SYSTEM BUS
210
KEYBOARD
207
MOUSE
208
MONITOR
101
104
PRINTER

FIG. 3

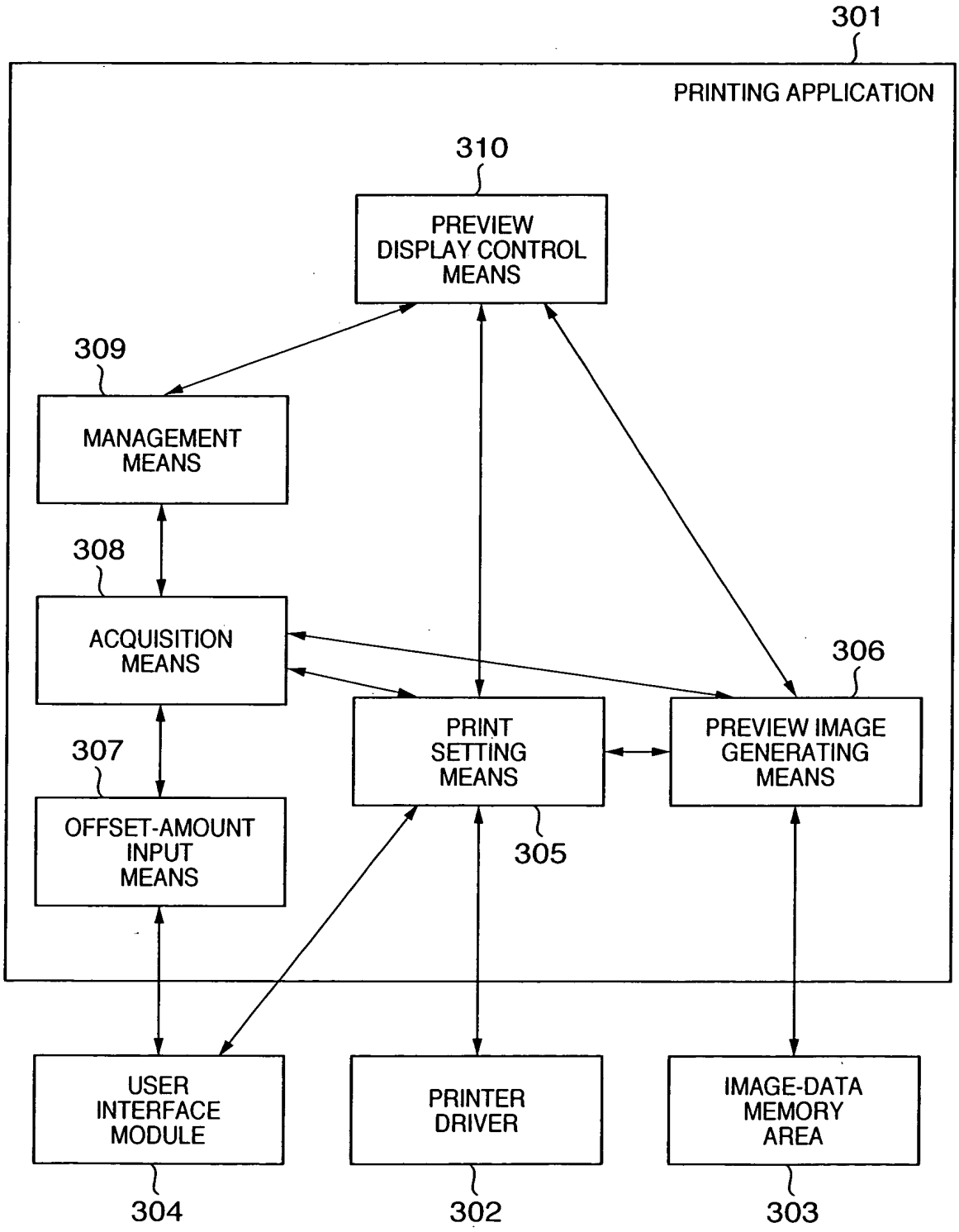

301
PRINTING APPLICATION
310
PREVIEW DISPLAY CONTROL MEANS
309
MANAGEMENT MEANS
308
ACQUISITION MEANS
306
PRINT SETTING MEANS
PREVIEW IMAGE GENERATING MEANS
307
OFFSET-AMOUNT INPUT MEANS
305
USER INTERFACE MODULE
PRINTER DRIVER
IMAGE-DATA MEMORY AREA
304
302
303

FIG. 4

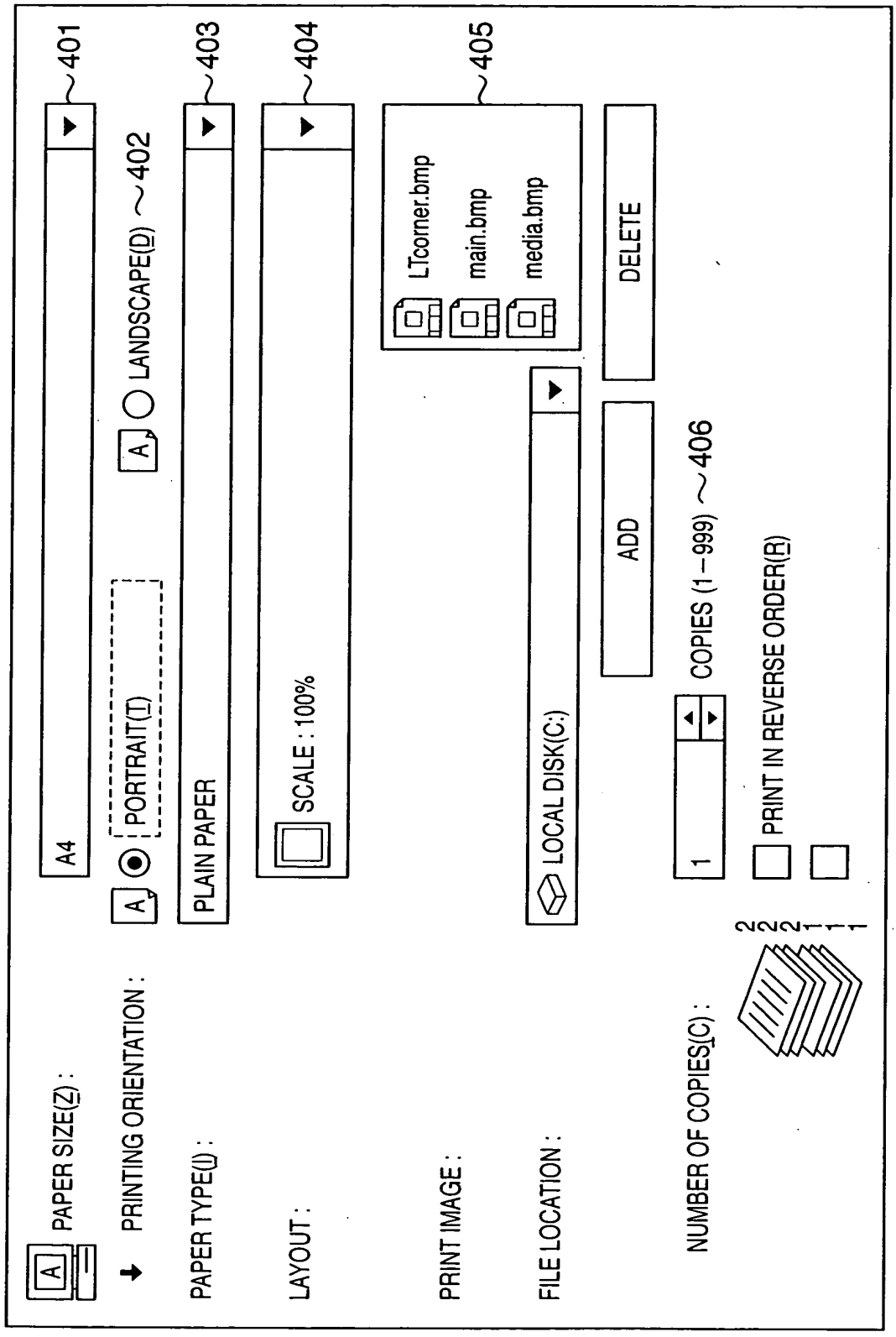

PAPER SIZE(Z) :
A4
401
PRINTING ORIENTATION :
PORTRAIT(T)
LANDSCAPE(D)
402
PAPER TYPE(U) :
PLAIN PAPER
403
LAYOUT :
SCALE : 100%
404
PRINT IMAGE :
LTcorner.bmp
main.bmp
media.bmp
405
FILE LOCATION :
LOCAL DISK(C:)
ADD
DELETE
NUMBER OF COPIES(C) :
1
COPIES (1 – 999)
406
PRINT IN REVERSE ORDER(R)

FIG. 5

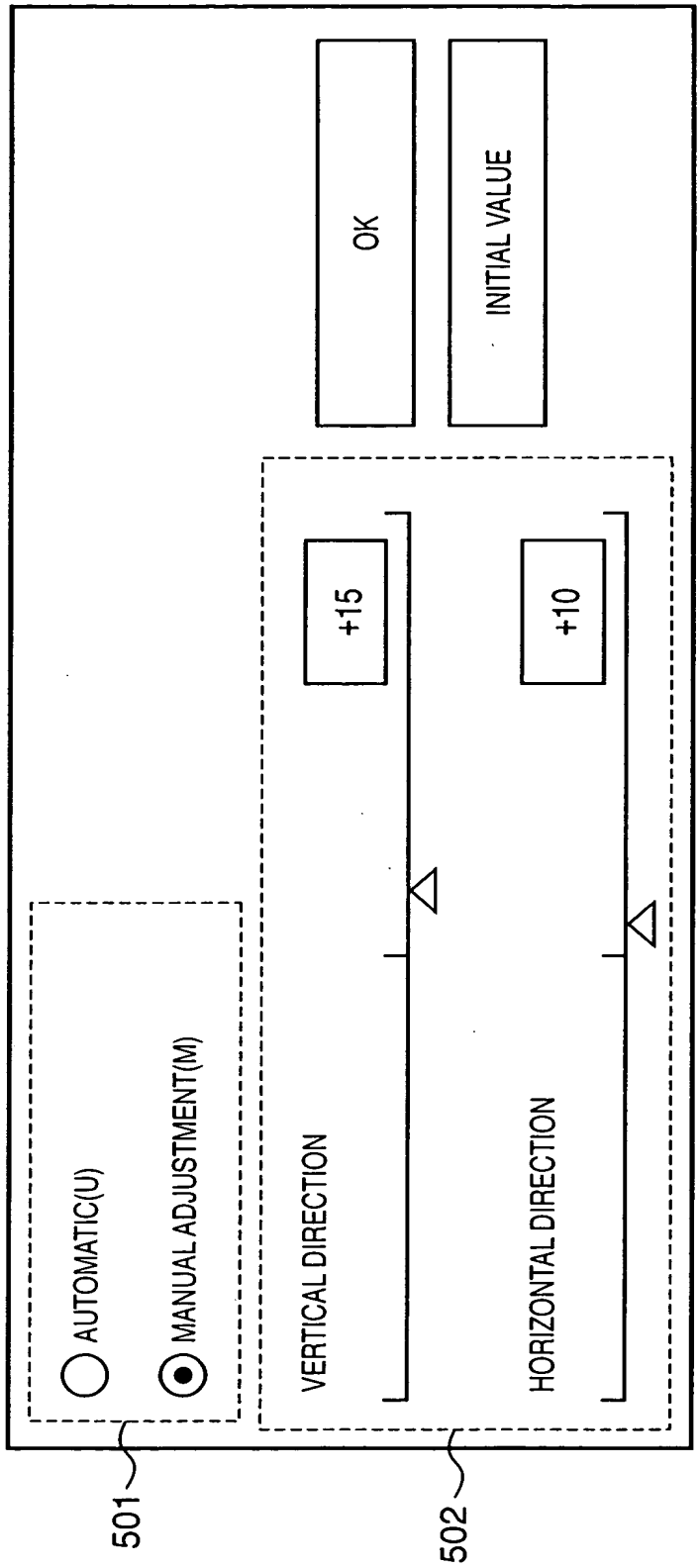

OK
INITIAL VALUE
AUTOMATIC(U)
MANUAL ADJUSTMENT(M)
VERTICAL DIRECTION
+15
HORIZONTAL DIRECTION
+10
501
502

FIG. 6

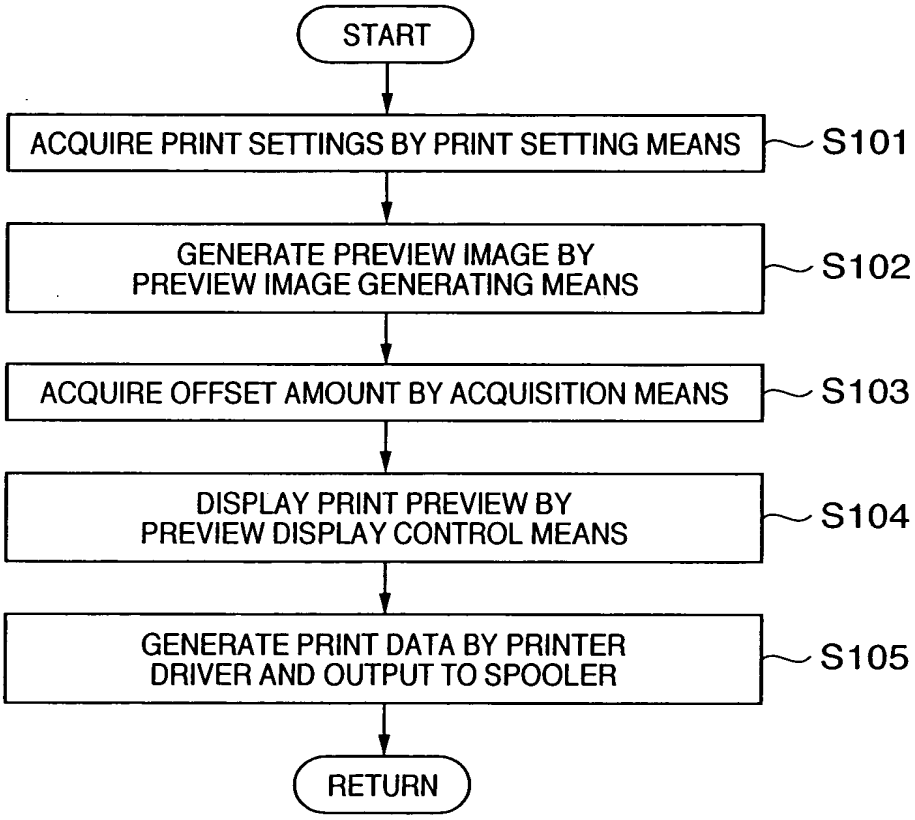

START
ACQUIRE PRINT SETTINGS BY PRINT SETTING MEANS
S101
GENERATE PREVIEW IMAGE BY PREVIEW IMAGE GENERATING MEANS
S102
ACQUIRE OFFSET AMOUNT BY ACQUISITION MEANS
S103
DISPLAY PRINT PREVIEW BY PREVIEW DISPLAY CONTROL MEANS
S104
GENERATE PRINT DATA BY PRINTER DRIVER AND OUTPUT TO SPOOLER
S105
RETURN

FIG. 7

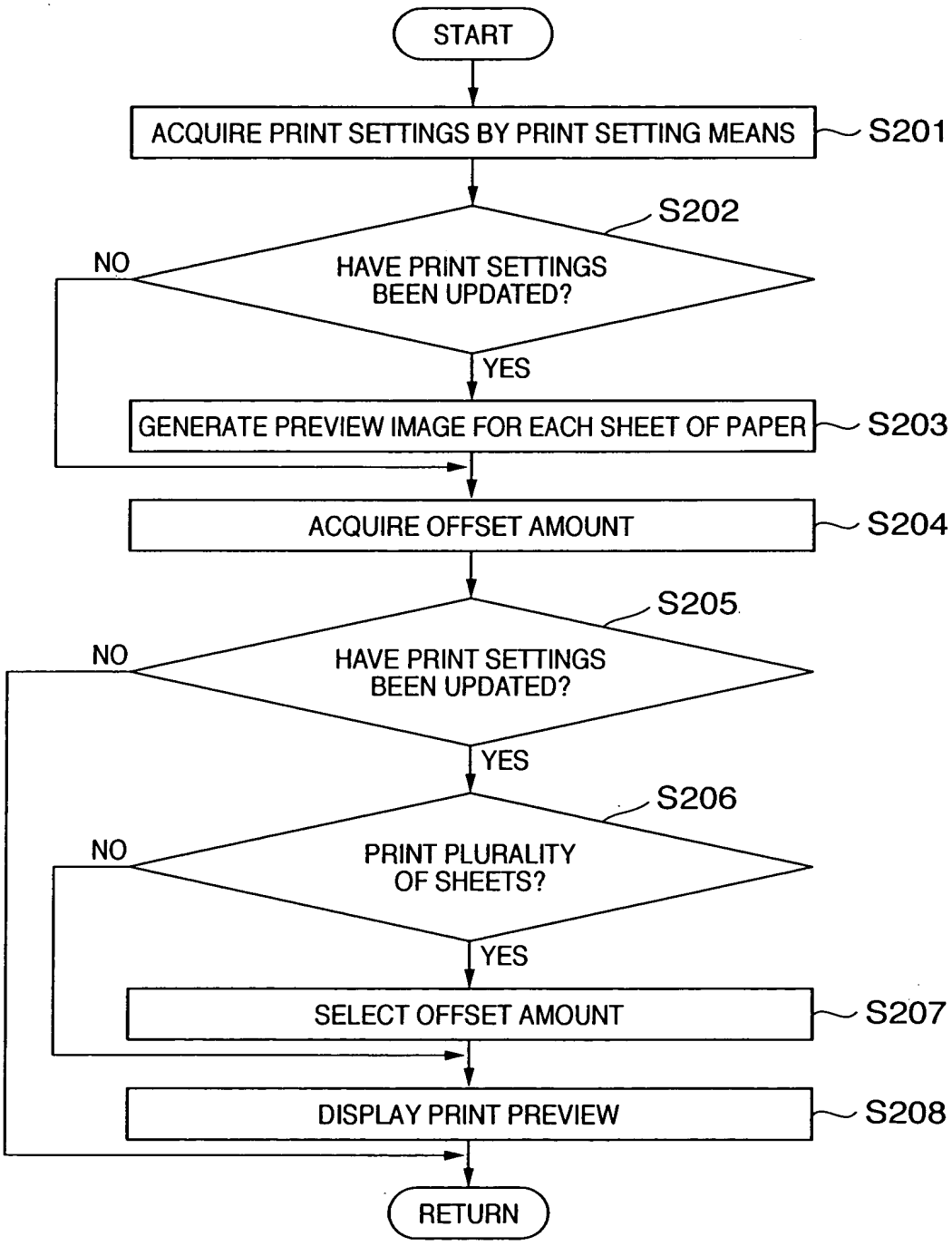

START
ACQUIRE PRINT SETTINGS BY PRINT SETTING MEANS
S201
S202
HAVE PRINT SETTINGS BEEN UPDATED?
NO
YES
GENERATE PREVIEW IMAGE FOR EACH SHEET OF PAPER
S203
ACQUIRE OFFSET AMOUNT
S204
S205
HAVE PRINT SETTINGS BEEN UPDATED?
NO
YES
S206
PRINT PLURALITY OF SHEETS?
NO
YES
SELECT OFFSET AMOUNT
S207
DISPLAY PRINT PREVIEW
S208
RETURN

FIG. 8

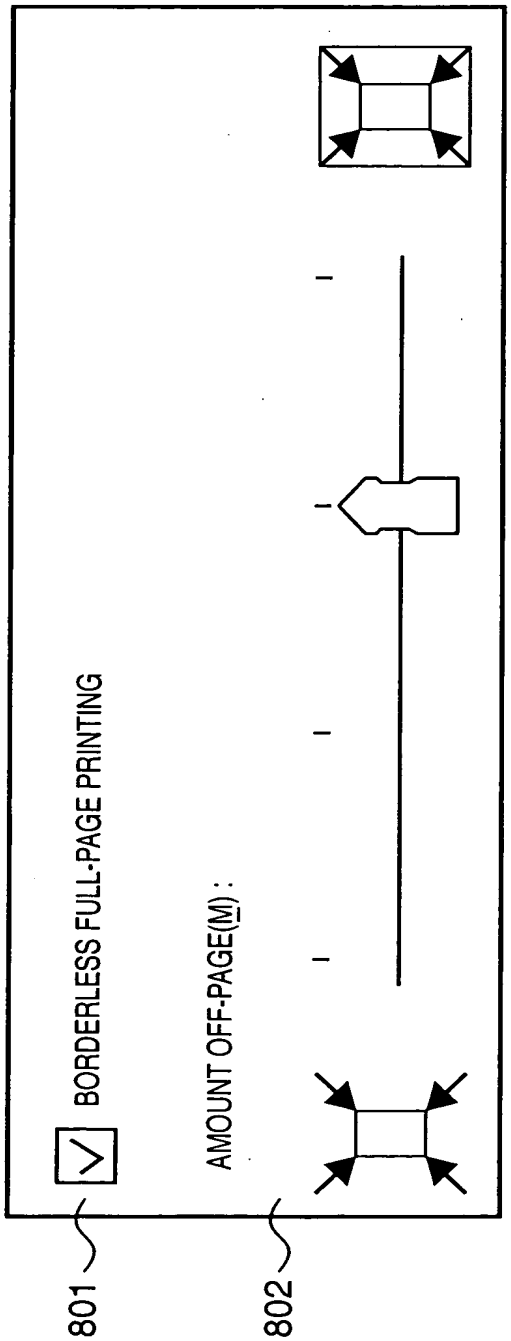
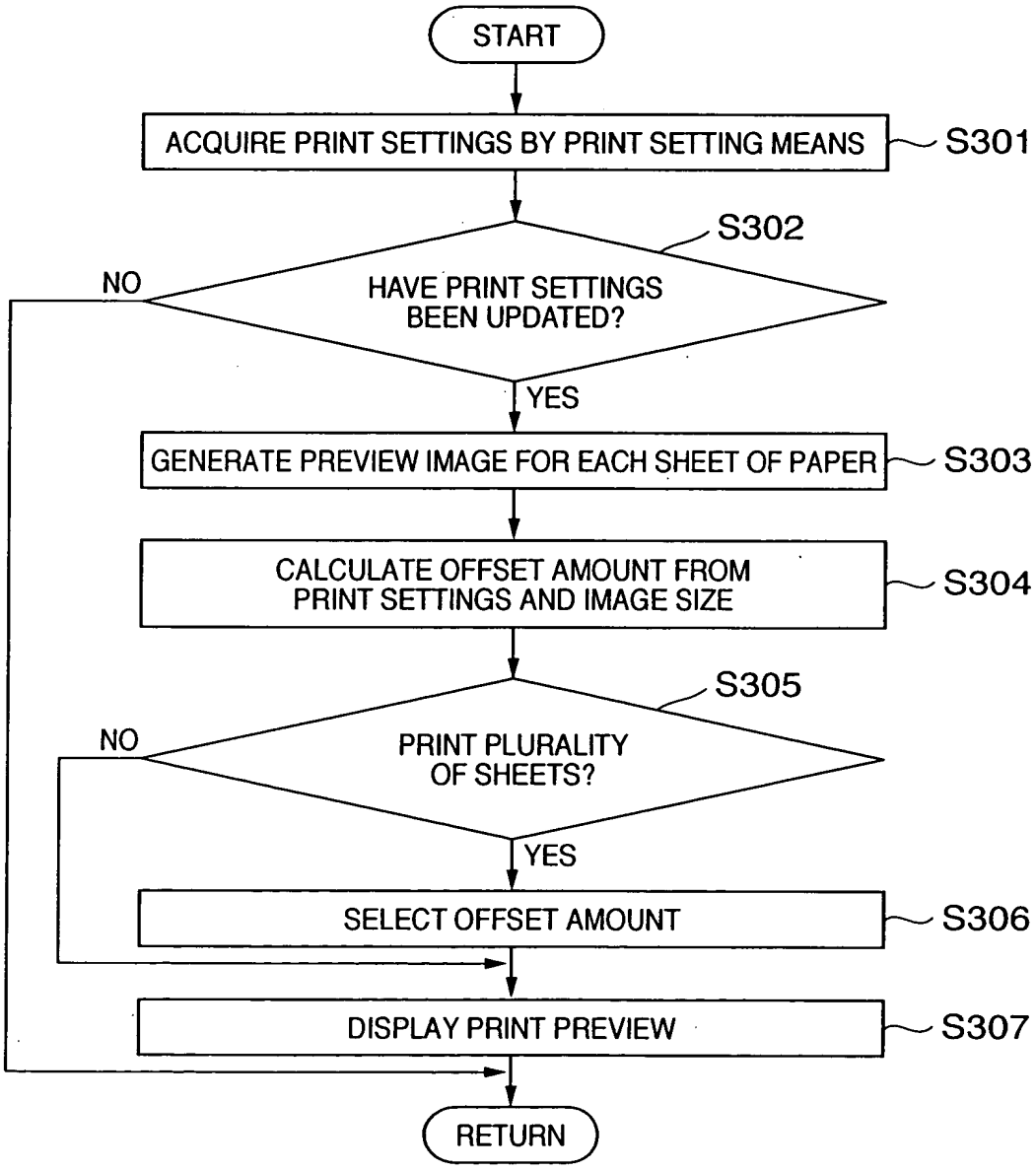


FIG. 9


START
ACQUIRE PRINT SETTINGS BY PRINT SETTING MEANS
S301
S302
HAVE PRINT SETTINGS BEEN UPDATED?
NO
YES
GENERATE PREVIEW IMAGE FOR EACH SHEET OF PAPER
S303
CALCULATE OFFSET AMOUNT FROM PRINT SETTINGS AND IMAGE SIZE
S304
S305
PRINT PLURALITY OF SHEETS?
NO
YES
SELECT OFFSET AMOUNT
S306
DISPLAY PRINT PREVIEW
S307
RETURN

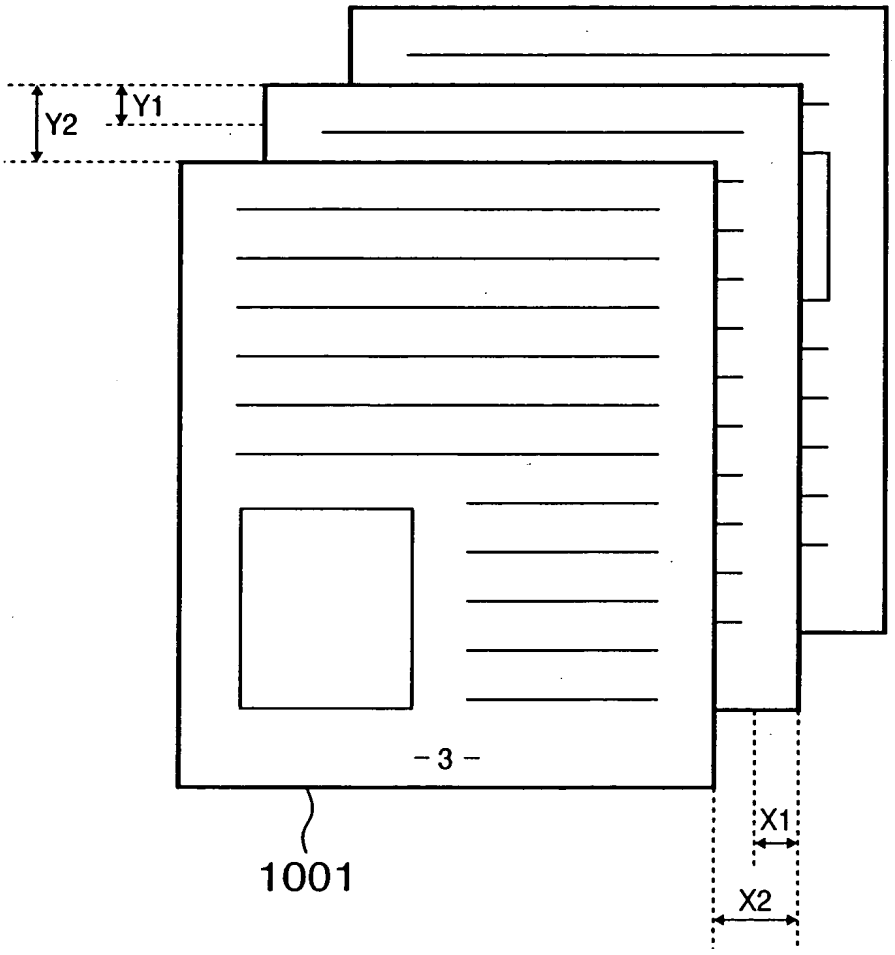



FIG. 10